

Sequencing Techniques

GeNei™ Manual DNA Sequencing Data Analysis Teaching Kit

Description:

The power of DNA sequencing is its ability to reduce genes and genomes to chemical entities of defined structure. One of the best known DNA sequencing techniques are the enzymatic methods of Sanger et al. (1977), which uses controlled synthesis of DNA to generate fragments that terminate at specific points by the introduction of dideoxynucleotide triphosphates (ddNTPs). The synthesized DNA segments are sorted by size on a polyacrylamide gel and an autoradiogram is made of the gel.

The kit enables the user to get acquainted to the Sanger's dideoxy method of sequencing. It includes worksheets developed from autoradiograms representing a mammalian gene. The user is expected to read the sequence from the autoradiogram image, analyse the data, align it to the sequence provided, make a reverse complement and further BLAST the sequence using <http://www.ncbi.nlm.nih.gov/BLAST/>

The kit contains worksheets for 10 groups.

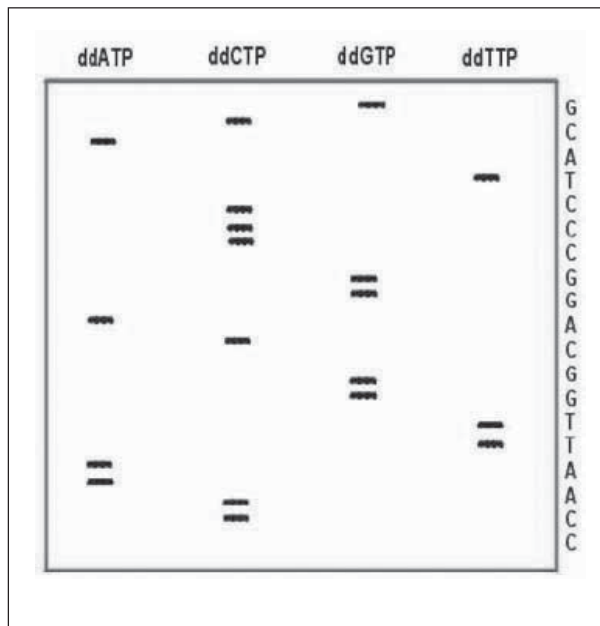
Ordering Information:

Product	Size	Cat #
GeNei™ Manual DNA Sequencing Data Analysis Teaching Kit (10 Worksheets)	1 Pack	107792

Materials Provided:

- 10 worksheets obtained from an autoradiogram generated by a sequencing gel.
- A CD containing: Original sequence of the autoradiogram (soft copy); Antisense sequence of the gene (soft copy).
- Instruction Manual

Additional requirements: Computer access to the internet



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